

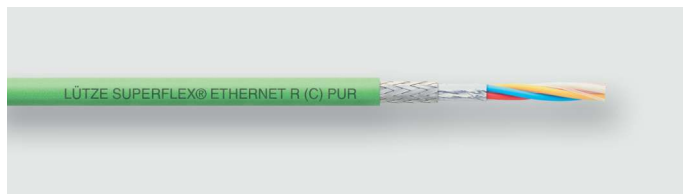
Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET R (C) PUR

For highest requirements, torsion-resistant

Cat. 5e, PROFINET Type R



Identification

Type	SU ET R (C) PUR (2×2×AWG22/19)StC Cat5e
Part No.	104050
Profinet Type	Type R

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free

Construction

Ethernet Key	SF/UTQ
Description	LÜTZE SUPERFLEX® ETHERNET R (C) PUR
Number of conductors/cross-section	(2×2×AWG22/19)StC
Number of conductors	4
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	green RAL 6018
Outer Ø	6.5 mm
Weight	6 kg/100 m
Cu-Index	3.4 kg/100 m

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11.03.2025 • Subject to technical modification

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Construction Element 1

Element construction	(2×2×AWG22/19)
Conductor construction	AWG 22/19
Conductor	AWG conductor CU-wire tin-plated
Conductor marking standard	ISO IEC 11801
Conductor insulation	TPE

Overall construction

Overall stranding	Star quad stranding Layer pitch optimised
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 85 %

Technical data

Rated voltage	600 V
Test voltage type	AC 2000 V
Temperature according to UL	80 °C
Temperature range moving	-20 °C ... +60 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	4×D
Category	Cat.5e
Bending cycles	≥5 Mio
Speed	5 m/s
Acceleration	10 m/s ²
Torsion cycles	≥ 5 Mio
Torsion	± 180°/m

Technical Data Element 1

Element construction	(2×2×AWG22/19)
Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤114.8 mΩ/m
Impedance	nom.100 Ω
HF Characteristics according to	IEC 61156-6

Certifications/Standards

Certifications	cURus
UL style	AWM 21238
Conformity	CE RoHS REACH

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Burning behavior according to	UL 1581 sec. 1100 HFT/FT2 acc. to UL 2556 sec. 9.1 IEC 60332-1-2
Oil resistant according to	IEC 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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